| Unit:   |                     | Permit Part        | & Chapter:   |                          |
|---|---------------------|--------------------|--------------|--------------------------|
| 325 Hazardous Waste Treatment Unit  | ts Pa               | rt III, Chapter 6  | and Attachm  | ent 36                   |
| Description of Modification:  |                     |                    |              |                          |
| Part A, Form 3: Replace the Part A, Form 3, RePart A, Form 3, was modified to reflect the insta |                     |                    |              |                          |
| Replace Chapter 1.0 with attached Chapter 1.0.  |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    | ,            |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
|   |                     |                    |              |                          |
| Modification Class: 123   | Class 1             | Class 1            | Class 2      | Class 3                  |
| Please check one of the Classes:  | l X                 | 201210122          |              |                          |
| Relevant WAC 173-303-830, Appendix I Modif  | ication: A.1.       | kedelflägts tellin | Paris Indian |                          |
| Enter wording of the modification from WAC 1  |                     | ix I citation      |              |                          |
| A. General Permit Provisions  |                     |                    | *<br>***     |                          |
| Administrative and Informational change   | es.                 |                    |              | new Sept. Of State Grown |
| Submitted by Co-Operator: Reviewed by RL Progra   | om Office   Pavious | M by Feelegy       | Paviawadi    | y Ecology:               |
| ting & epen my 6/23/0 Ocollantes  | 6/29/00 WW          | 24 8/18/ND         | Hard         | 8/18/00                  |
| A.K. Ikenberry' Date R.F. Christensen   | Date J. J. Wa       | llace Date         | L.E. Ruud    | Date                     |
| t .   |                     |                    |              |                          |

<sup>&</sup>lt;sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>&</sup>lt;sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to 11, if appropriate.

Page 3 of 10 Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Unit: Part III, Chapter 6 and Attachment 36 325 Hazardous Waste Treatment Units Description of Modification: Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system. Section III.C. S01, T04, S02, T01 The 325 Hazardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory (SAL) which includes Rooms 32, 200, 201, 202, and 203; the Hazardous Waste Treatment Units (323 FW 108) consist of the Shielded Analytical Laboratory (SAL) which includes Rooms 32, 200, 201, 202, and 203; the Hazardous Waste Treatment Unit (HWTU) encompassing Rooms 520 and 528 of the 325 Building, and the 325 Collection/Loadout Station Radioactive United Waste Tank (RLWT) located in the southeast corner of the basement of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 10,000 liters of dangerous and/or mixed waste may be stored in containers in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04). Liquid dangerous and/or mixed waste is transferred to tank storage via gravity drain lines located in the SAL (which drain into tank TK-1) and in Room 528 [which drain directly to the radioactive liquid waste system (RLWS)]. Tank TK-1 is drained via a jet system into the RLWS included the RLWS included The Collection/Loadout Station Tank will be utilized in the RLWS to collect liquid dangerous and/or mixed waste after the RLWS is closed, and will be connected to existing drain lines. This tank will The RLWT transfers collected liquid dangerous and/or mixed waste to a loadout station, where mobile containers will be after loaded to transfer the liquid dangerous and/or mixed waste to the Double-Shell Tank System. A maximum of 12,574 liters of dangerous and/or mixed waste may be treated in tanks per day in the waste may be stored in tanks in the 325 HWTUs (S02). A maximum of 12,574 liters of dangerous and/or mixed waste may be treated in tanks per day in the Dangerous and/or mixed waste treatments are generally conducted as small bench-scale operations except for in-tank treatments. Treatment processes utilized at the 325 HWTUs may include the following: Electrodialysis Centrifugation Molten salt destructor Electrolysis Evaporation Clarification Coagulation Pyrolysis Wet air oxidation T57 High gradient magnetic separation T58 Decanting Leaching Liquid ion exchange T14 Calcination T59 Encapsulation Filtration Microwave discharge Other thermal treatment T60 Liquid-liquid extraction T18 Flocculation Reverse osmosis Solvent recovery T21 Chemical fixation Flotation Chemical oxidation Chemical precipitation T63 Foaming T23 T64 T65 Stripping Sedimentation T24 Chemical reduction Sand filter Thickening Ultrafiltration Chlorination Other removal technology T66 Chlorinolysis T67 T69 Activated sludge Other separation technology T27 T28 Cyanide destruction Aerobic tank Anaerobic lagoon or tank Absorption-molecular sieve Activated carbon Degradation Detoxification T70 T49 Composting T50 Blending T30 T31 Ion exchange Thickening filter Catalysis Crystallization T74 Neutralization T75 Trickling filter Other biological treatment T32 Ozonation Dialysis T33 Photolysis Distillation Other chem Class 3 Class 2 Class 1 Class 1 Modification Class: 123 Please check one of the Classes: Relevant WAC 173-303-830, Appendix I Modification: Enter wording of the modification from WAC 173-303-830, Appendix I citation A. General Permit Provisions 1. Administrative and Informational changes Reviewed by Ecology: Reviewed by Ecology Submitted by Co-Operator: Reviewed by RL Program Office 23/0 Chey kery Date L.E. Ruud Date Date R.F. Christensen Date A.K. Ikenberry

<sup>&</sup>lt;sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>&</sup>lt;sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>&</sup>lt;sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

| 17 1 3 5                           |   |                              |                                 | Uni                               |  |  |                  |            |        | Perm            | it Par              | t &        | Chapter:  |  |
|------------------------------------|---|------------------------------|---------------------------------|-----------------------------------|--|--|------------------|------------|--------|-----------------|---------------------|------------|---|--|
|                                    | 325 Ha  | zard                         | ous \                           | Wast                              | e Treatment Units  | 1  |                  | Pa         | rt III | l, Ch           | apter               | al         | nd Attachm  | ent 30                                 |
| escrip                             | tion of   | Mod                          | ificat                          | ion:                              | \(\frac{1}{2}\)  |  |                  |            |        |                 |                     |            |   | 4.A. The                               |
| art A,                             | Form 3  | , was                        | mod                             | lified                            | Part A, Form 3, Revalue of the installangerous Waste: C  | llation o  | I the R          | adio       | active | Liqu            | i A, Fo             | rm<br>iste | Tank systen   | n.                                     |
| Line<br>No.                        | A. Da   | angero                       | us Wa                           | ste                               | B. Estimated Annual<br>Quantity of Waste   | C. Unit  | of Meas          |            |        |                 |                     | D.         | Processes   |  |
| 140.                               | 110   | . (                          |                                 |                                   |  |  |                  |            | 1. P   | rocess<br>(ente | Codes               | (          | 2. Process Description (if a code is not entered in D(1)) |  |
| 485                                | W   | T                            | 0                               | 1                                 |  | 1  |                  |            | 1      | ļ               |                     |            |   | 1                                      |
| 486                                | W   | T                            | 0                               | 12                                |  | 1  |                  |            | 1      | 1               |                     |            | ` .   | 1                                      |
|                                    |   |                              |                                 |                                   |  |  |                  |            |        |                 |                     |            |   |  |
|                                    |   |                              |                                 |                                   |  |  |                  |            |        |                 | 1                   |            | Class 2   | Clace 3                                |
| Modif                              | ication   | Class                        | S: 123                          |                                   |  |  |                  | Class      | 1      | С               | lass <sup>1</sup> 1 |            | Class 2   | Class 3                                |
| Modif<br>Please                    | ication<br>check                                  | Class<br>one c               | f the                           | Clas                              | ses:   |  |                  | X          |        |                 |                     |            | Burgara Carlo and Dawers                                  | Class 3                                |
| Please                             | check   | one c                        | of the                          | 3-83(                             | Appendix I Modi  | fication   | A.1              | X          |        |                 |                     |            | Burgara Carlo and Dawers                                  | (************************************* |
| Please<br>Releva<br>Enter          | e check<br>ant WA<br>wordin                       | one of to                    | of the<br>3-303<br>he m         | 3-830<br>odifi                    | ), Appendix I Modi<br>cation from WAC  | fication   | A.1              | X          |        |                 |                     |            | Burgara Carlo and Dawers                                  | (************************************* |
| Please<br>Releva<br>Enter          | ant WA  | one c<br>C 17<br>g of t      | of the<br>3-303<br>he m         | 3-830<br>odifi                    | ), Appendix I Modi<br>cation from WAC  | fication:<br>73-303                                      | A.1              | X          |        |                 |                     |            | Burgara Carlo and Dawers                                  | (************************************* |
| Please<br>Releva<br>Enter<br>A. Ge | ant WA<br>wording                                 | C 17 g of t                  | 3-303<br>he m<br>t Prov         | 3-83(<br>odifi<br>visionand I     | D, Appendix I Modication from WAC Ins  | fication:<br>73-303                                      | A.1              | X          |        |                 |                     |            |   |  |
| Please<br>Releva<br>Enter<br>A. Ge | ant WA<br>wording<br>eneral P                     | C 17<br>g of t<br>erministra | 3-303<br>he m<br>t Provide a    | 3-830<br>odifi<br>vision<br>and I | D, Appendix I Modication from WAC Ins  | fication:<br>73-303<br>es.                               | A.1-830, A       | X<br>Apper | ndix I | citat           |                     |            |   |  |
| Please<br>Releva<br>Enter<br>A. Ge | ant WA<br>wording<br>eneral P                     | C 17<br>g of t<br>erministra | 3-303<br>he m<br>t Provide a    | odifi<br>visionand I              | Appendix I Modication from WAC Insurante in the control of the con | fication:<br>73-303<br>es.                               | : A.1<br>-830, A | X<br>Apper | ndix I | citat           | ion                 | 10         |   |  |
| Please<br>Releva<br>Enter<br>A. Ge | ant WA wordin eneral P Admin itted by Lun Ikenber | Co-O                         | of the 3-303 he m t Provitive a | odification                       | D, Appendix I Modication from WAC Ins  | fication: 173-303 es. pes. pes. pes. pes. pes. pes. pes. | ce: //oo //      | Apper      | ndix I | citat           | ion  ology:  Da     | [Mote      | Reviewed<br>AMwul<br>L.E. Ruud                            | by Ecology: Date                       |

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-305 Appendix 1, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

| Hanford Facility RCRA Permit N   |                                      |  |   |                        |               |
|--|--------------------------------------|--|---|------------------------|---------------|
| The Control of the Co | Modification                         | Notificati   | on Form   |                        | 3 (1.5 -92 E) |
|  |                                      | Permit Part &  | Chapter:  |                        |               |
| Unit:  | Part III.                            | , Chapter 6 ar   | d Attachme  | nt 36                  |               |
| 325 Hazardous Waste Treatment Units  | 10111                                | ,  |   |                        |               |
| scription of Modification:<br>rt A, Form 3: Replace the Part A, Form 3, Revision 4 w<br>rt A, Form 3, was modified to reflect the installation of  | vith the attached<br>the Radioactive | Part A, Form<br>Liquid Waste   | 3, Revision 4<br>Tank system  | A. The                 |               |
| Modified Date Signed block as follows: Revision:4 signed 00/30/1997  |                                      |  |   |                        |               |
| ection X: Modified Date block as follows: Date Revision 4 Signed   |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  | Class 1                              | Class 1  | Class 2   | Class 3                |               |
| Modification Class: 12 3   | X                                    |  |   |                        | 200           |
| Please check one of the Classes:   | 10200118                             |  | 1200-1411-1717  | AND SALES              |               |
| 202 820 Amendix I Modification:  | A.1.                                 | THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN TO SERVICE |   |                        | _             |
| Relevant WAC 173-303-830, Appendix I Modification:<br>Enter wording of the modification from WAC 173-303-  | 830, Appendix                        | I citation   |   |                        |               |
| A. General Permit Provisions   |                                      |  |   |                        |               |
| General Perintt Trovisions     Administrative and Informational changes.   |                                      | and a second second  | maneral transfer of the Santa | <b>新加州 化乙基 和原环的</b> 不是 |               |
| 1. Administrative  | <b>中文化对数制作的</b>                      | 開始上述時期的  |   | l by Ecology:          | 4000          |
| Submitted by Co-Operator: Reviewed by RL Program Office    Reviewed by RL Program Office   Rev | Reviewed  J. J. Walla                | by Ecology:  Ce Date   | L.E. Ruu  | 8 18 00<br>d Date      |               |
| A.K. Ikemberry   |                                      |  |   |                        |               |
|  |                                      |  |   |                        |               |
|  | annroval.                            |  |   |                        |               |
| <sup>1</sup> Class 1 modifications requiring prior Agency a <sup>2</sup> This is only an advanced notification of an interpretable on the consequently in  | .pp.0                                | a a 2 modific  | ation this she  | ould be followed       | ed            |

with a formal modification request, and consequently imp

<sup>&</sup>lt;sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

|  | on Form                               | Notificati                      | Modification                           | RCRA Permit   | Hanford Facility   | Treating.                         |
|--|---------------------------------------|---------------------------------|--|---|--|-----------------------------------|
| nt 36  | Chapter:                              | Permit Part &<br>, Chapter 6 ar | Professional makes and a               |   | Unit: Hazardous Waste Trea   | 325                               |
| <u>.                                    </u> |                                       |                                 |  |   | CA C 1'C - stion:  |                                   |
| A. The                                       | 3, Revision 4.<br>Tank system.        | Part A, Form<br>Liquid Waste    | with the attached<br>f the Radioactive | , Form 3, Revision 4<br>lect the installation o               | of Modification.  n 3: Replace the Part A  n 3, was modified to ref                                  | _                                 |
|  |                                       |                                 |  |   | Redrawn and identifica   | Figure 1:                         |
|  |                                       |                                 |  | Freatment Units   | Redrawn and identifica<br>325 Hazardous Waste  | Figure 2:                         |
|  |                                       | 2 and <del>Proposed</del>       | Tank in Room 3                         | nalytical Laboratory  | Revised to denote RPS<br>follows:<br>Location of Shielded A<br>Collection/Loadout Sta                | Figure 3:                         |
|  |                                       |                                 | ank.                                   | vs:<br>on/Loadout Station T                                   | Modified title as follow Proposed 325 Collection   | Figure 5:                         |
|  |                                       |                                 |  |   |  |                                   |
|  |                                       |                                 |  |   |  |                                   |
| Class 3                                      | Class 2                               | Class 1                         | Class                                  |   |  |                                   |
| Class 3                                      | Class 2                               | Class 1                         | Class 1                                |   | ion Class: 12.3  | Modificat                         |
| Class 3                                      | Class 2                               |                                 | X                                      | pendix I Modification   | eck one of the Classes:  | Please che                        |
| Class 3                                      | Class 2                               |                                 | X                                      | andiy I Modification  | WAC 173-303-830, App   | Please cho                        |
|  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                                 | X<br>: A.1.<br>3-830, Appendix         | pendix I Modification from WAC 173-30 national changes.       | WAC 173-303-830, Appding of the modificational Permit Provisions                                     | Relevant Enter wor A. Gener       |
|  |                                       | citation                        | X<br>a: A.1.<br>3-830, Appendix        | pendix I Modification from WAC 173-30 national changes.       | WAC 173-303-830, App<br>ding of the modification<br>al Permit Provisions<br>dministrative and Inform | Relevant Enter wor A. Gener 1. Ac |
| by Ecology:                                  |                                       |                                 | X<br>a: A.1.<br>3-830, Appendix        | pendix I Modification<br>from WAC 173-30<br>national changes. | WAC 173-303-830, Appding of the modificational Permit Provisions                                     | Relevant Enter wor A. Gener 1. Ac |

<sup>&</sup>lt;sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>&</sup>lt;sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

Page 7 of 10 Hanford Facility RCRA Permit Modification Notification Form Permit Part & Chapter: Unit: Part III, Chapter 6 and Attachment 36 325 Hazardous Waste Treatment Units Description of Modification: Part A, Form 3: Replace the Part A, Form 3, Revision 4 with the attached Part A, Form 3, Revision 4A. The Part A, Form 3, was modified to reflect the installation of the Radioactive Liquid Waste Tank system. Photograph 1: Modified titles as follows: Hazardous Waste Treatment Units Photograph 2: Modified titles as follows: Hazardous Waste Treatment Units Photograph 3: Modified titles as follows: Hazardous Waste Treatment Units Photograph 6: Corrected identification number for photograph. Photograph 8: Corrected the photo taken date as follows: (Photo Taken 1979 1996) Photograph 9: Replaced photograph with current photograph of installed RLWT. Modified title as follows:: Proposed-325 Collection/Loadout Station Tank Class 3 Class 2 Class 1 Class 1 Modification Class: 123 X Please check one of the Classes: Relevant WAC 173-303-830, Appendix I Modification: Enter wording of the modification from WAC 173-303-830, Appendix I citation A. General Permit Provisions 1. Administrative and Informational changes. Reviewed by RL Program Office Submitted by Co-Operator:

tor

R.F. Christensen

This K-Chenky

A.K. Ikenberry

J. Wallace

<sup>&</sup>lt;sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>&</sup>lt;sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>&</sup>lt;sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

For questions or comments, contact Mike Cline at <a href="mailto:michael\_w\_cline@rl.gov">michael\_w\_cline@rl.gov</a> URL: <a href="http://www.rl.gov/rcra/approvals/4.3.1.7\_rev4a\_apprvl.html">http://www.rl.gov/rcra/approvals/4.3.1.7\_rev4a\_apprvl.html</a> Last Modified: <a href="mailto:10/19/2000 08:46:00">10/19/2000 08:46:00</a> Return to the Hanford home page.

Maintained by FH

Privacy & Security Notice

